

IFW

INFORMATION DISCLOSURE STATEMENT

Applicant : David L. Hagen et al.
App. No. : 10/686,191
Filed : October 15, 2003
For : METHOD AND APPARATUS FOR
MIXING FLUIDS
Examiner : Unknown
Group Art Unit : 3753

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first-class mail in an envelope addressed to: United States Patent and Trademark Office, PO Box 1450, Alexandria, VA 22313-1450, on

June 15, 2004

Rabinder N. Narula, Reg. No. 53,371

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing 51 references. Copies of disclosed U.S. patents and/or publications are not included pursuant to PTO waiver of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003. Copies of other references, if listed, are enclosed.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

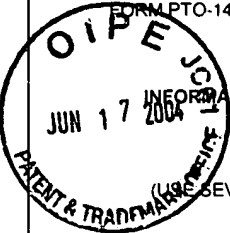
Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 6-15-04

By:

Rabinder N. Narula
Registration No. 53,371
Attorney of Record
Customer No. 20,995
(949) 760-0404

 FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)	ATTY. DOCKET NO. VAST.001CP2	APPLICATION NO. 10/686,191
	APPLICANT David L. Hagen et al.	
	FILING DATE October 15, 2003	GROUP 3753

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF-APPROPRIATE)
	1	2,678,531	05/18/54	Miller			
	2	2,678,532	05/18/54	Miller			
	3	2,869,324	01/20/59	Foote			
	4	3,238,719	03/08/66	Harslem			
	5	3,651,641	03/28/72	Ginter			
	6	3,657,879	04/25/72	Ewbank et al.			
	7	3,696,795	10/10/72	Smith et al.			
	8	4,128,994	12/12/78	Cheng			
	9	4,248,039	02/03/81	Cheng			
	10	4,483,137	11/20/84	Faulkner et al.			
	11	4,491,093	01/01/85	Hoekstra			
	12	4,509,324	04/09/85	Urbach et al.			
	13	4,522,024	06/11/85	Zaugg			
	14	4,753,068	06/28/88	El-Masri			
	15	4,841,721	06/27/89	Patton et al.			
	16	4,928,478	05/29/90	Maslak			
	17	5,050,375	09/24/91	Dickinson			
	18	5,175,995	01/05/93	Pak et al.			
	19	5,271,215	12/21/93	Guillet			
	20	5,617,716	04/08/97	Schreiber			
	21	5,627,719	05/06/97	Gaston			
	22	5,680,764	10/28/97	Viteri			
	23	5,743,080	04/28/98	Ginter			
	24	5,771,678	06/30/98	Shouman			
	25	6,042,090	03/28/00	Zablonier et al.			
	26	6,089,024	07/18/00	Hatanaka			
	27	6,289,666	09/18/01	Ginter			

EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. VAST.001CP2	APPLICATION NO. 10/686,191
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT David L. Hagen et al.	
		FILING DATE October 15, 2003	GROUP 3753

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	28	6,293,086	09/25/01	Reynolds			
	29	6,370,862	04/16/02	Cheng			
	30	6,418,724	07/16/02	Cheng			
	31	6,564,556	05/20/03	Ginter			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	32	DE 37 28 557 A	03/09/89	Germany				
	33	EP 0444013 A1	08/28/91	Europe				
	34	EP 0446379 A1	09/18/91	Europe				
	35	EP 0505263 A1	09/23/92	Europe				
	36	EP 0761298 A2	03/12/97	Europe				
	37	EP 1319435 A2	06/18/03	Europe				
	38	FR 2 043 074	02/12/71	France				
	39	GB 1 142 956	02/12/69	United Kingdom				
	40	WO 9510009	04/13/95	PCT				
	41	WO 0128648	04/26/01	PCT				
	42	WO 0190548 A1	11/29/01	PCT				
	43	IT 1256878	12/27/95	Italy				

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	44	Blanco et al., "Water Recovery Systems for Steam Injected Gas Turbines: An Economic Analysis", Proceedings of ECOS 2002, July 3-5, Berlin, Germany.
	45	Bathie, W., "Fundamentals of Gas Turbines", 1996, p 139.
	46	Boyce, M., "Handbook for Cogeneration and Combine Cycle Power Plants", 2002, p 62.
	47	Granovski et al., "Simulation of Temperature Field Redistribution through multistage cooled turbines", Paper 2001-GT-0576, ASME Turbo Expo. 2001 June 4-7, 2001, New Orleans.

EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	

FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. VAST.001CP2	APPLICATION NO. 10/686,191
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT David L. Hagen et al.	
		FILING DATE October 15, 2003	GROUP 3753

EXAMINER INITIAL	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)	
	48	Lefebvre, A., "Gas Turbine Combustion", 1998, section 5-7-3 (pp.150-151); p337 (on CO vs. NOx).
	49	Malecki et al., "Application of and Advanced CFD-Based Analysis System to the PW600 Combustor to Optimize Exit Temperature Distribution – Part 1: Description and Validation of the Analysis Tool", 2001.
	50	Pavri et al., "GE Power Systems; Gas Turbine Emissions and Control", 2001, p 18.
	51	Travers, A., "Thermoeconomic Analysis of STIG, RWO and HAT Cycles with Carbon Dioxide (CO ₂) Emission Penalty", Masters Thesis of Thermochemical Power Group of the University of Genoa Faculty of Engineering, 2000.

H:\DOCS\RN\RN-8498.DOC
061504

EXAMINER	DATE CONSIDERED
*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.	